

Roll No: 9556.

AI.

### Exp 1: Postlab.

① What is the easiest trick to win Tic Tac Toe?

Ans] The easiest trick to win Tic Tac Toe is to play as the first player and start in the centre square. This move maximises your chances of winning if your opponent doesn't make optimal moves.

② What is the algorithm to follow to win a  $5 \times 5$  Tic Tac Toe?

Ans] There isn't a guaranteed algorithm to win  $5 \times 5$  Tic Tac Toe. Since the game becomes more complex with the larger grid size. However strategy from regular  $3 \times 3$  can be applied such as creating a winning line while blocking your opponent's attempts to do the same.

③ Is there a way to never lose at Tic Tac Toe?

Ans] While it's theoretically possible to never lose at Tic Tac Toe if both players make optimal moves, the game has a finite number of board positions, so a perfect player could force a draw every time the game is played.



Q.4/Am] Tic Tac Toe can help you with several cognitive skills including strategic thinking, decision making and planning ahead. It is often used as a teaching tool for basic game theory and as a simple introduction to more complex board games.